San Jacinto River Waste Pits Superfund Site

USACE Support

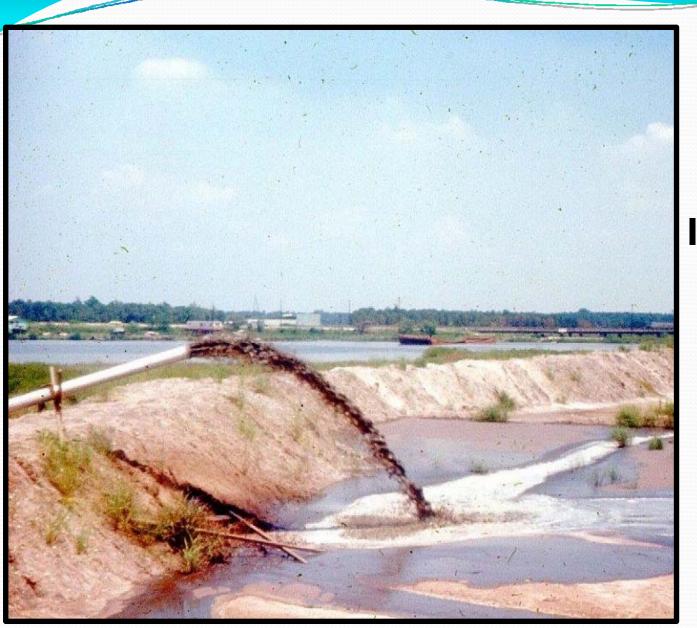




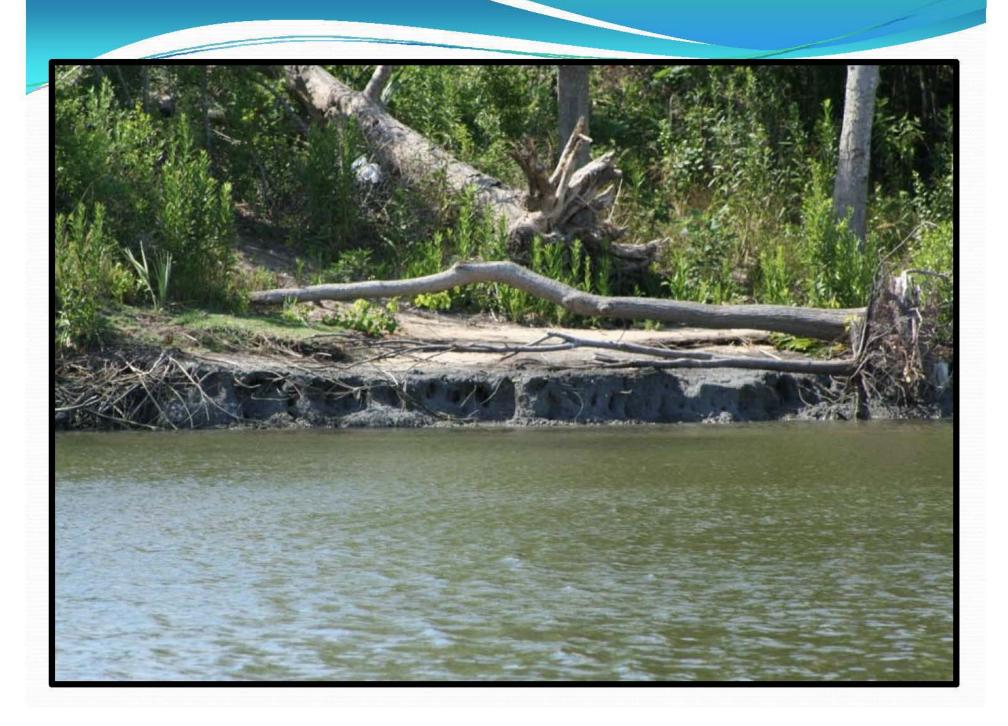
San Jacinto River Waste Pits

Oct 1964

[only south pit; north pits not built yet]



South Impoundment 1965





Previous USACE involvement:

- Review of PRP modeling report.
- Review of PRP temporary cap design.
- Review of PRP draft Feasibility Study.
- Special Permit Area (EPA/USACE/TCEQ).



The Issues:

- San Jacinto River
- Community concerns

San Jacinto River

- Upper Texas coast recorded 25 hurricanes, 7 of which were major (Category 3 to 5) storms.
- October 1994 storm greater than 100year flood (1.6 times):
 - Major soil erosion 8 pipelines ruptured &
 29 undermined; 3000 homes destroyed.
 - 10 to 12-feet of bed scour south of the I-10.



Lower San Jacinto River

San Jacinto River at I-10 (Photo: HCFCD)

Temporary Cap – Berm Erosion

- Western Berm erosion July 2012.
- Completion of repairs August 2012.





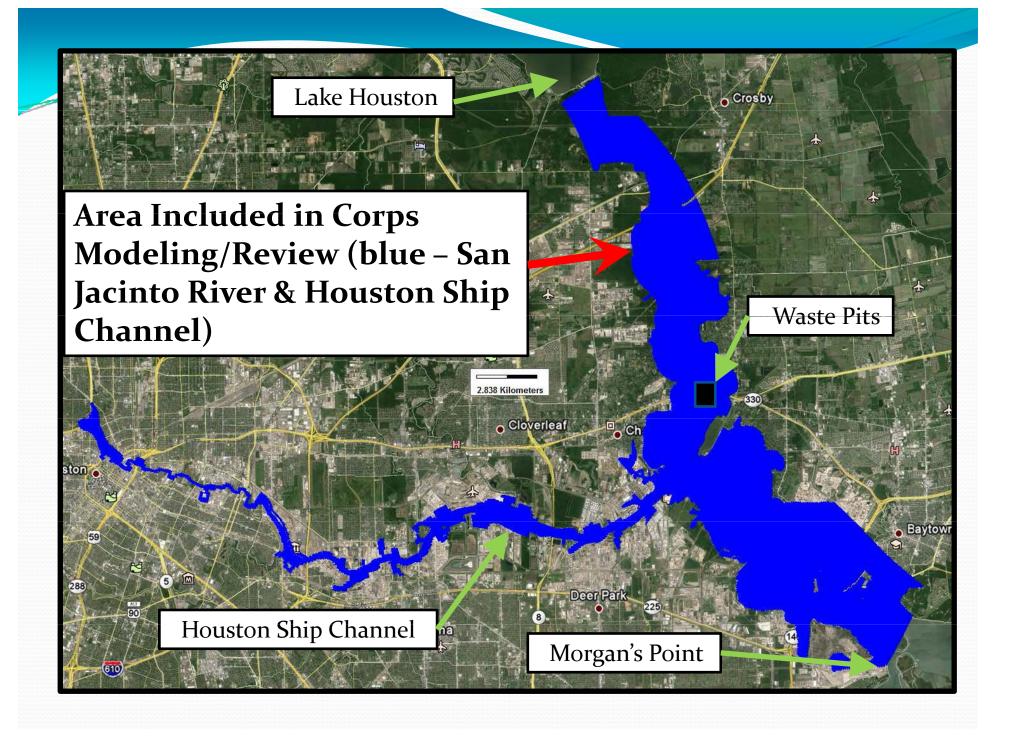
USACE Support

- Should waste stay or should it go?
- Construction oversight (future amend IAG).

Engineer Research and Development Center (ERDC), Vicksburg MS.

U.S. Army Corps of Engineers

- Computer models river flow & scour.
- Evaluation of remedial alternatives.
- Short & long term cap reliability? [storms, prop wash & barge strikes].
- Any migration through cap?
- Removal Best Management Practices.



U.S. Army Corps of Engineers

Completed work:

- New model calibrated.
- Design/construction review of entire cap.
- Assessed potential dioxin migration through cap.
- Assessed potential barge strike impacts.
- Case history of armor failures.
- Sediment re-suspension & residuals; BMPs.
- Draft report under review.

